

CLAIMS

1 1. A sensor array system for detecting the position of an object or energy source,  
2 comprising:

3 a plurality of sensors, each sensor having a limited field of view and being  
4 capable of detecting an object or energy source that is positioned within its field of  
5 view, wherein the fields of view of at least some of the sensors overlap the fields of  
6 view of other sensors, the overlapping fields of view defining unique spatial regions;  
7 and

8 a data acquisition system, operatively connected to said plurality of sensors,  
9 for determining which sensors simultaneously detect an object or energy source,  
10 thereby determining the unique spatial region in which the object or energy source is  
11 located.

1 2. The sensor array system of claim 1, wherein said plurality of sensors is  
2 arranged in a linear array.

1 3. The sensor array system of claim 1, wherein said plurality of sensors is  
2 arranged in a two-dimensional array.

1 4. The sensor array system of claim 1, wherein said plurality of sensors  
2 comprises sensors capable of transmitting and receiving electromagnetic energy.

1 5. The sensor array system of claim 1, wherein said plurality of sensors  
2 comprises fiber optic light sensors.

1 6. The sensor array system of claim 1, wherein the system is designed to function  
2 as a hit detector for detecting the impact of projectiles.

1 7. The sensor array system of claim 1, wherein said plurality of sensors includes  
2 first and second groups of sensors, said first group of sensors having a more narrow  
3 field of view than said second group of sensors. .

1 8. The sensor array system of claim 6 or 7, wherein said plurality of sensors is  
2 arranged around the circumference of a cylindrical object.